

MULTILAYERED ARTICLE AND A PROCESS FOR ITS PREPARATION
ABSTRACT OF THE DISCLOSURE

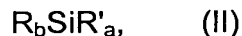
A multilayered article is disclosed, which includes, in sequence: (1) a substrate (S), e.g., of thermoplastic polycarbonate; (2) a scratch-resistant layer (SR); and (3) a top layer (T). The scratch-resistant layer is prepared by curing a scratch-resistant coating composition comprising a polycondensate prepared from at least one silane, said polycondensate being prepared by a sol-gel process. The top layer is prepared by curing a top layer coating composition prepared by hydrolyzing a composition which includes:

at least one compound represented by general formula I,



wherein M is an element selected from the group consisting of Si, Ti, Zr, Sn, Ce, Al, B, VO, In and Zn, R' represents a hydrolysable radical, and m is an integer from 2 to 4; and

optionally at least one compound represented by general formula II,



wherein the radicals R' and R are the same or different, R' is as defined for general formula (I), R represents a group selected from an alkyl group, an alkenyl group, an aryl group, a hydrocarbon group with at least one halogen group, an epoxide group, a glycidyloxy group, an amino group, a mercapto group, a methacryloxy group and a cyano group, and a and b independently of one another have a value from 1 to 3, provided that the sum of a and b is four.

The multilayered articles are distinguished by possessing outstanding scratch and abrasion resistance.